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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-27 (Cancelled)

Claim 28 (Currently Amended) A pattern inspection method comprising: ~~the steps of:~~

conditioning for setting up a mask region in a specimen to be inspected; and
inspecting for detecting defects on the specimen and outputting information of
defects which are detected in areas other than said mask region on said specimen,
wherein said inspecting operation is applied to plural specimens one after
another, and the conditioning operation includes:

~~attaining~~obtaining a digital image of an ~~object substrate~~ test
inspection area of the specimen for testing through microscopic observation
thereof;

detecting defects~~defect candidates~~ of a pattern formed ~~on~~in said ~~object~~
~~substrate~~test inspection area of said specimen for testing by comparing said
digital image with a reference image stored in a memory; ~~while masking a pre-~~
~~registered region or a pattern matching with a pre-registered pattern in which~~
~~the pre-registered region or the pre-registered pattern is inputted and~~
~~displayed on a display screen; and~~

displaying on ~~the~~ a display screen, ~~an actual image of a defect among~~
~~the defects detected together with display on the display screen of positional~~

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distribution data of the defects detected on said object-substrate;
inspection area of said specimen for testing in a map format;
defining said mask region in said test inspection area on said display
screen in which said detected defects are displayed in a map format; and
saving a data of said defined mask region in a recipe to be used in
subsequent iterations of the inspecting operation.

Claim 29 (Currently Amended) A pattern inspection method as claimed in claim 28,

wherein the ~~pre-registered region or pre-registered pattern~~ mask region is a region ~~or pattern~~ which has been inputted using the digital image attained through microscopic observation of the specimen. ~~object-substrate.~~

Claim 30 (Cancelled)

Claim 31 (Currently Amended) A pattern inspection method comprising: the ~~steps of:~~

conditioning for setting up a mask region in a specimen to be inspected; and
inspecting for detecting defects on a specimen and outputting information of
defects which are detected in areas other than said mask region on said specimen.

wherein said inspecting operation is applied to plural specimens one after
another, and the conditioning operation includes:

~~obtaining a digital image of an object-substrate through microscopic~~
~~observation thereof;~~

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~~detecting defects of a pattern formed on said object substrate by~~
~~comparing said digital image with a reference image stored in a memory; and~~
inspecting a test inspection area of a specimen for testing under a trial
inspection condition and detecting defect candidates;
classifying said detected defect candidates by using information of
image and feature quantity of said defect candidates;
~~displaying data on the defects detected~~said defect candidates detected
in said test inspection area under said trial inspection condition on a display
screen and displaying an inputted pre-registered feature on the display
screen in a map format together with information obtained at the classifying
operation;
~~wherein, at the step of displaying, a positional distribution of the defects~~
~~on said object substrate is displayed on the display screen in a map format~~
~~together with display on the screen of an enlarged actual image of a defect~~
~~among the defects detected, the positional distribution being displayed by~~
~~excluding defects having a feature that matches with the pre-registered~~
~~feature or distinguishing from defects which do not have a feature that~~
~~matches with the pre-registered feature~~defining said mask region in said test
inspection area on said display screen in which said detected defects are
displayed in a map format; and
saving a data of said defined mask region in a recipe to be used in
subsequent iterations of the inspecting operation.

Claim 32 (Currently Amended) A pattern inspection method as claimed in
claim 31,

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wherein the ~~pre-registered feature is a feature~~ mask region is a region which has been inputted using the digital image obtained through microscopic observation of the specimen, ~~object-substrate~~.

Claim 33 (Cancelled)

Claim 34 (Currently Amended) A pattern inspection method comprising: the steps of:

conditioning for setting up a mask region in a specimen; and
inspecting for detecting defects on a specimen and outputting information of defects which are detected in areas other than said mask region on said specimen,

wherein said inspecting operation is applied to plural specimens one after another, and the conditioning operation includes:

designating one of die area among plural die areas formed on a specimen for the conditioning operation;

obtaining a digital image of ~~an object-substrate~~ said designated die area through microscopic observation thereof;

detecting ~~defects~~ defect candidates of a pattern formed ~~on~~ in said object ~~substrate~~ designated die area by comparing said digital image with a reference image stored in a memory;

~~inputting and displaying on a display screen a pre-registered region, a pre-registered configuration or pre-registered feature quantity of the object substrate; and~~

displaying on ~~the~~ a display screen data of the ~~defects~~ defect candidates detected in the detecting operation including ~~a position or positional~~

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information in said object substrate designated die area in a map format;
together with display on the display screen of an enlarged actual image of a
defect among the detected defects;

wherein, at the step of displaying, data regarding defects located in a
pre-registered region, or data having a pattern that matches with a pre-
registered configuration or pre-registered feature quantity is displayed so as to
be distinguishable from data regarding an other detected defect defining on
said display screen a mask region in said map; and

saving a data of said corrected mask region in a recipe to be used in
subsequent iterations of the inspecting operation.

Claim 35-36 (Cancelled)

Claim 37 (Previously Presented) A pattern inspection method as claimed in
claim 34,

wherein feature quantity data of each defect contains at least one kind of data
including defect position data, projection length data, area data, and shape data.

Claim 38 (Currently Amended) A pattern inspection method comprising: the
steps of:

conditioning for setting up a mask region in a specimen to be inspected; and
inspecting for detecting defects on a specimen and outputting information of
defects which are detected in areas other than said mask region on said specimen,
wherein said inspecting operation is applied to plural specimens one after
another, and the conditioning operation includes:

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designating one of die area among plural die areas formed on
specimen for the conditioning operation;

inspecting said designated die area under a trial inspection condition
and detecting defect candidates;

classifying said detected defect candidates by using information of
image and feature quantity of said defect candidates;

displaying said defect candidates detected in said test inspection area
under said trial inspection condition on a display screen in a map format
together with information obtained at the classifying operation;

designating a defect class to be masked among said classified defect
candidates;

displaying defect candidates which belong to said designated defect
class on said screen;

defining said mask region in said designated die area on said display
screen in which said defect candidates belonging to said designated defect
class are displayed in a map format; and

saving a data of said mask region defined at the defining operation in a
recipe to be used in subsequent iterations of the inspecting operation.

~~obtaining a digital image of an object substrate through microscopic
observation thereof;~~

~~detecting candidate defects by processing the obtained digital image;~~

~~extracting defects from the detected candidate defects by excluding candidate
defects located in a predefined region on the object substrate or having a pattern
that matches with a pre-registered pattern which is inputted and displayed on a
display screen;~~

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~~displaying an actual image of a defect among the extracted defects on the display screen together with display on the display screen of positional distribution data on the object substrate in a map format and feature quantity data thereof; classifying the defect which is displayed on the display screen; and outputting class data of the classified defect together with feature quantity data thereof.~~

Claim 39 (Previously Presented) A pattern inspection method as claimed in claim 38,

wherein the class data of each of the classified defects is displayed on the display screen together with an image thereof.

Claim 40 (Previously Presented) A pattern inspection method as claimed in claim 38,

wherein a digital image of each of the detected candidate defects is stored, and a judgment for extracting defects from the detected candidate defects is carried out by using the stored digital image of each of the detected candidate defects.

Claim 41 (Currently Amended) A pattern inspection method as claimed in claim 38,

wherein the feature quantity data of each of the extracted defects is displayed on a CAD terminal.

Claim 42 (Currently Amended) A pattern inspection method as claimed in claim 38,

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wherein the feature quantity data of each of the extracted defects is displayed
or printed together with CAD data thereof.

Claim 43 (New) A pattern inspection method as claimed in claim 28, wherein
the defining is effected by a human user manually designating the mask region in the
test inspection area on the display screen.

Claim 44 (New) A pattern inspection method as claimed in claim 31, wherein
the defining is effected by a human user manually designating the mask region in the
test inspection area on the display screen.

Claim 45 (New) A pattern inspection method as claimed in claim 34, wherein
the defining is effected by a human user manually designating the mask region in the
test inspection area on the display screen.

Claim 46 (New) A pattern inspection method as claimed in claim 38, wherein
the defining is effected by a human user manually designating the mask region in the
test inspection area on the display screen.